

## REMOTE COMMANDER

# RM-X2

## OPERATING INSTRUCTIONS

Before operating the unit, please read this manual thoroughly and retain it for future reference.

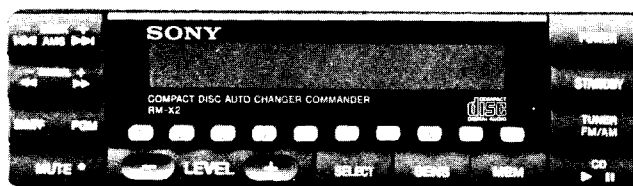
## OWNER'S RECORD

The model and serial numbers are located at the bottom of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. RM-X2

Serial No. \_\_\_\_\_

For installation and connection, see the supplied installation/connections manual.



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## FEATURES

The RM-X2 compact disc auto changer commander changes the discs in the disc magazine, and enables you to play the desired selection of the 10 discs in the desired sequence.

- The changer in the trunk room can be operated with the compact remote commander installed in the car.
- Search function for locating a desired disc and a desired point in the disc.
- The PGM (program) function for choosing the selection, or for playing particular selections in any desired order.
- You can listen to the radio by connecting the tuner unit (optional).

## PRECAUTIONS

- This unit designed for negative ground 12 V DC operation only.
- Before operating the unit first time or after replacing the car battery, press the reset button with a pencil, etc., then start operating the unit.
- If the error indicator flickers in the display window, see TROUBLESHOOTING GUIDE (See page 22.)
- If no power is being supplied to the unit, check the connection first. If everything is in order, check the fuse. (See page 21.)

If you have any questions or problems concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

# LOCATION AND FUNCTION OF CONTROLS

For details, refer to the pages indicated in ●.

Numeric buttons

RADIO

– SEEK + button 17

CD

◀◀ AMS ▶▶ button 11, 12

RADIO

– MANUAL + button 18

CD

◀◀ ▶▶ button 12

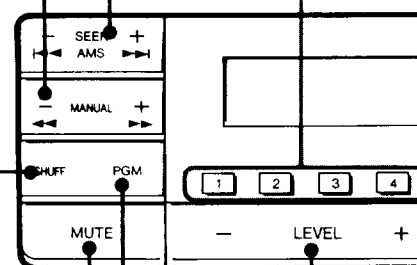
SHUFF (shuffle play) button 13

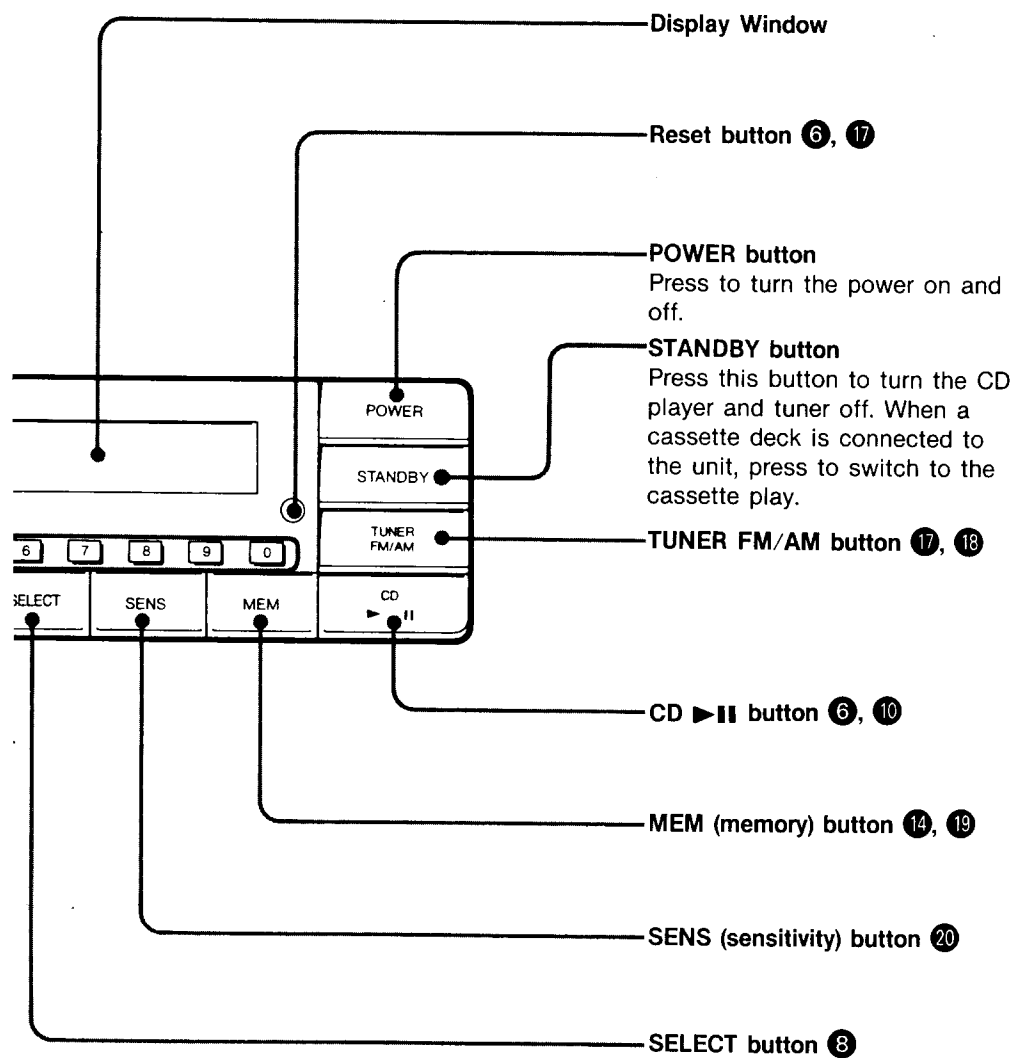
MUTE button

Press to decrease the volume temporarily. Press again to release it.

PGM (program play) button 15

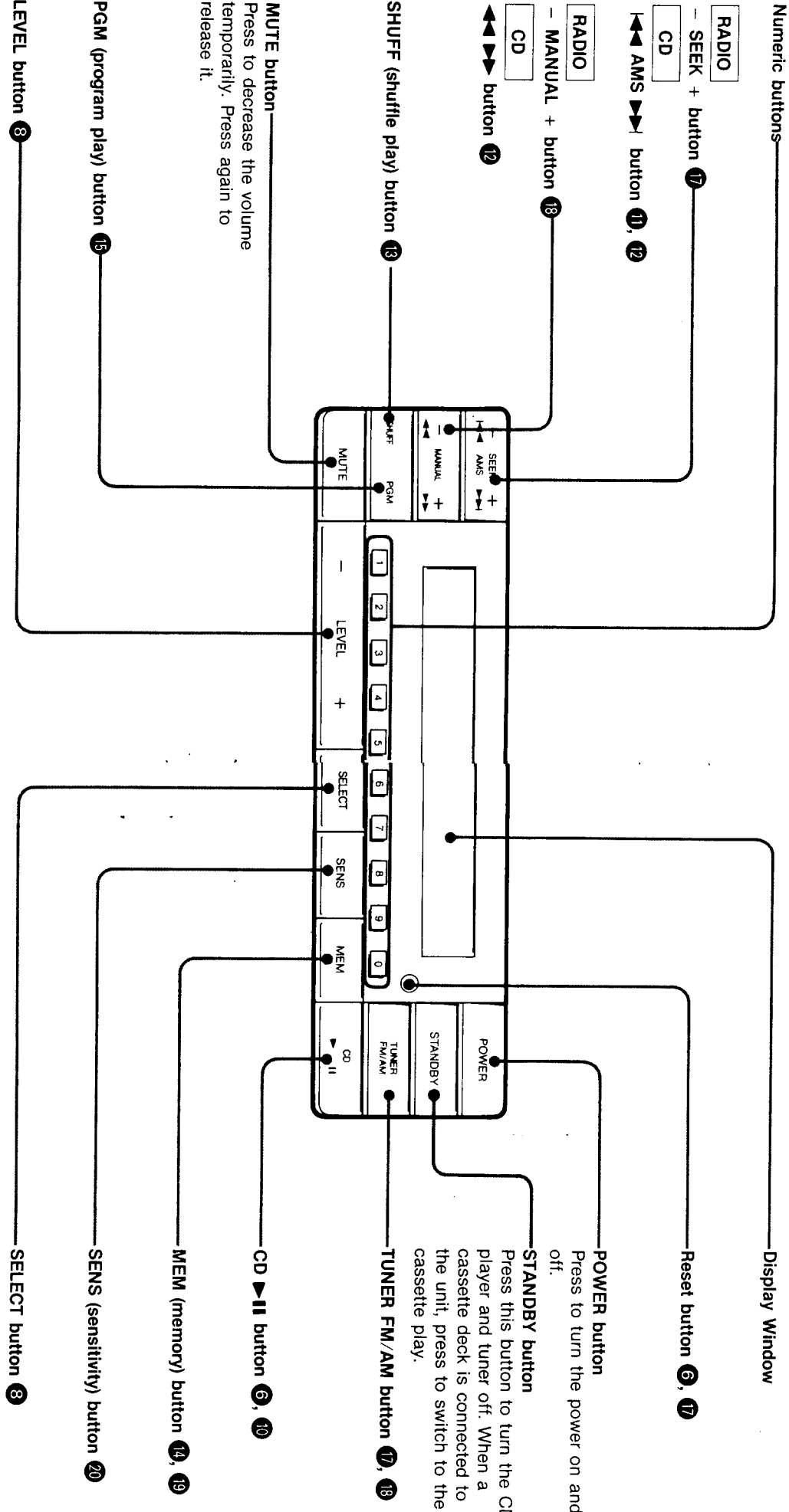
LEVEL button 8



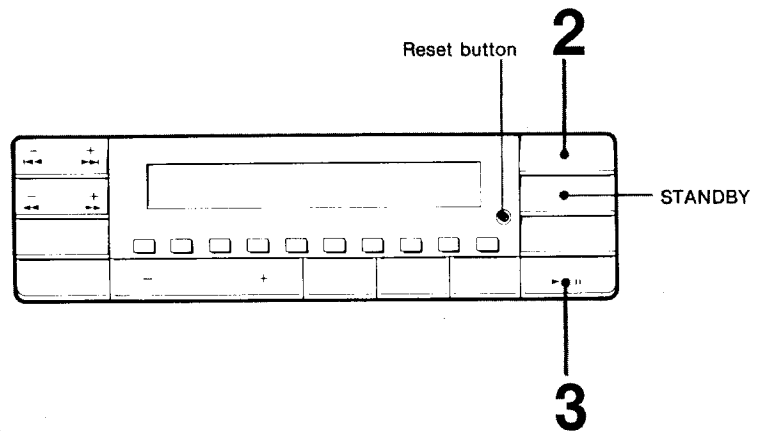


# LOCATION AND FUNCTION OF CONTROLS

For details, refer to the pages indicated in ●.



# TO START DISC PLAY

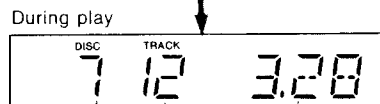
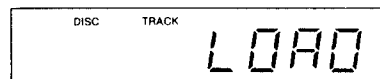


- 1 Insert the disc magazine into the changer.**  
(See the instruction manual of the CDX-A20.)
- 2 Press POWER to turn the power on.**
- 3 Press ►|| to start disc playing.**  
Play starts from the point at which play was stopped last time.  
(Play starts from the beginning of the first selection on the first disc, when you use the unit for the first time.)

Before operating the unit for the first time or after replacing the battery, press the reset button with a pointed object.

## LOAD indicator

While the disc is being selected, the LOAD indicator is displayed.



The disc number

The selection number

The elapsed time of the selection

## At the end of the disc

When disc reaches the end of the last selection of the disc, play of the next disc starts automatically. At the end of the last disc, the unit will go back to the beginning of the first disc, and the play will restart.

## When no disc is in the changer

- When ►|| is pressed without the disc magazine in the changer, [E-01] is displayed. Insert the disc magazine into the changer and press ►||.
- When ►|| is pressed with no disc in the disc magazine, [E-02] is displayed. Insert the disc into the disc magazine and press ►||.

To stop the disc play	Press STANDBY. To restart the disc play, press ►  . Disc play will start from the same point.
To pause for a moment	Press ►  . To release the pause mode, press again. Disc play will restart from the same point.
To turn the power off	Press POWER. To turn the power on, press again.

#### Important

Since the CD system boasts a wide dynamic range, the peaks of high level inputs are recorded with high fidelity, and the noise level is very low.

Do not turn up the volume while listening to a portion with no audio signals or very low level inputs. If you do, the speakers may be damaged when a peak level portion is played.

#### When the tuner is connected

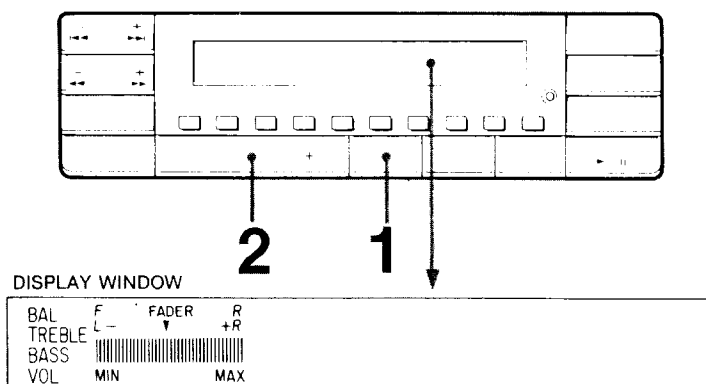
The disc play also stops when the FM/AM button is pressed. To restart disc play, press the ►|| button. Play will start from the point at which play was stopped.

#### This unit will automatically start playing in the following case

If the car ignition key is turned off during play and turned to the IGN (ignition) or ACC (accessory) position again within 32 seconds, the unit will restart the play from the same point. If the key is turned to the IGN (ignition) or ACC (accessory) position again after 32 seconds, the unit will restart from the beginning of the selection that was being played.



## TO ADJUST THE SOUND LEVEL AND QUALITY




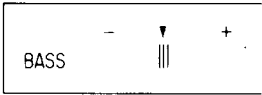
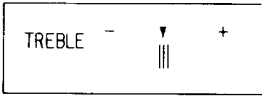
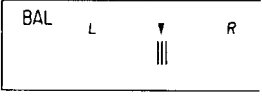
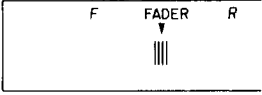
**1 Press SELECT to select the desired sound quality.**

Each time SELECT is pressed, the mode will change from volume, to bass, treble, balance or fader.

The indicator of the selected mode is displayed in the display window.

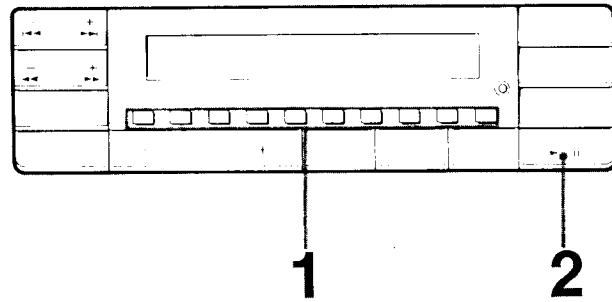
**2 Adjust the sound with LEVEL while the indicator of the selected mode is displayed.**

The LEVEL button will take the function of a volume control a few seconds after the adjustment is completed.

Display	LEVEL button (Keep pressed or press repeatedly.)	
	The side of – (Left side)	The side of + (Right side)
<b>Adjust the volume</b> 	Volume decreases.	Volume increases.
<b>Adjust the bass reponse</b> 	Bass decreases.	Bass increases.
<b>Adjust the treble response</b> 	Treble decreases.	Treble increases.
<b>Adjust the balance of the right and left channels</b> 	The level of the right speakers decreases.	The level of the left speakers decreases.
<b>Adjust the balance of the front and rear speakers</b> 	The level of the rear speakers decreases.	The level of the front speakers decreases.

# SEARCH OPERATION

## Start playing from a desired disc



**1 Press the numeric button corresponding to the disc which you want to play.**

To switch to the CD play from the radio reception, press the numeric button after pressing the STANDBY button or the ►|| button.

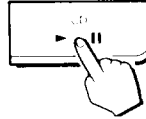
**2 Press ►|| within 5 seconds after pressing the numeric button.**  
Play will start from the beginning of the selected disc.

**Example: To listen to the 7th disc**

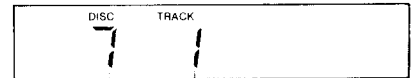
Press.



Press.



Display window

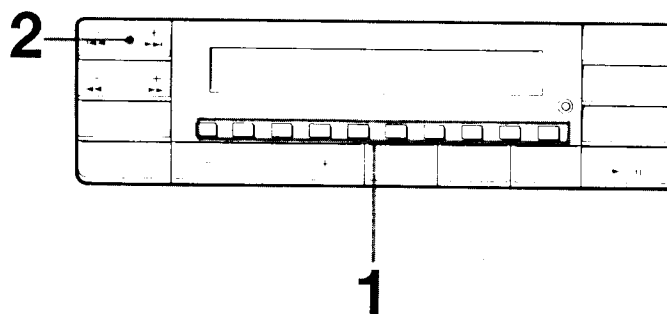


The disc  
number

The selection  
number

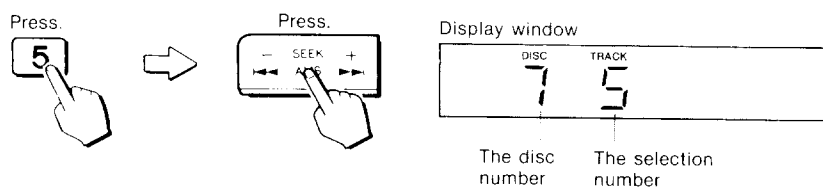
The numbers of numeric buttons match the numbers printed on the side of the disc magazine.

## Start playing from a desired selection



- 1 Press the numeric button corresponding to the selection which you want to play.
- 2 Press **◀◀** or **▶▶** within 5 seconds after pressing the numeric button. Whichever side ( **◀◀** or **▶▶** ) you may press, the desired selection is located.

**Example: To listen to the 5th selection (on the 7th disc)**



**To locate a selection whose selection number is greater than 9.**

Example: Track number 12

Press 1.

Press 2.

Press **◀◀▶▶**.

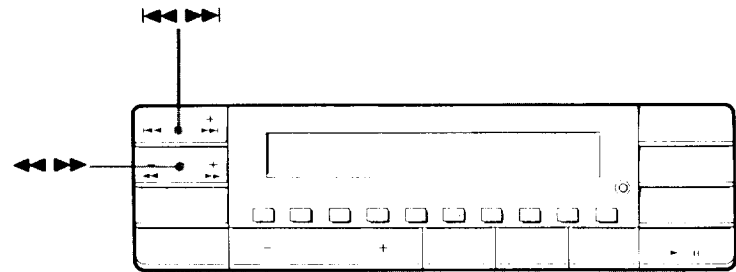
Example: Track number 10

Press 0.

Press **◀◀▶▶**.

**When the selection which is not in the disc is selected**

- When the selection which is not in the disc is selected, **E-03** is displayed. Select the correct number.
- When the selection which is not in the disc is selected while the **LOAD** (the disc is being changed) is being displayed, the last selection of that disc is played.



## To locate a selection—AMS\* function

To locate the selection being played	Press <b>◀◀</b> .
To locate the previous selections	Keep <b>◀◀</b> pressed.
To locate the next selection	Press <b>▶▶</b> .
To locate the selections ahead	Keep <b>▶▶</b> pressed.

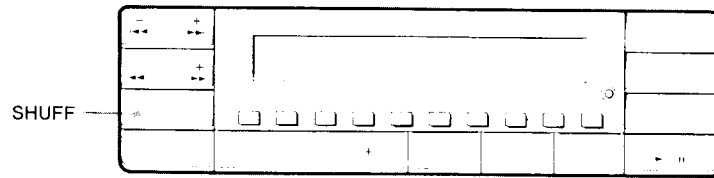
## To locate a particular point in a selection

To go back at high speed	Keep <b>◀◀</b> pressed.
To go ahead at high speed	Keep <b>▶▶</b> pressed.

AMS\* is an abbreviation of the Automatic Music Sensor.  
Each time the button is pressed, the track number will change by one.

**If you keep ◀◀ or ▶▶ pressed**  
When you have passed the end of the disc by keeping the ▶▶ side pressed or passed the beginning of the disc by keeping the ◀◀ side pressed, the search stops at that point.

## PLAYING THE SELECTIONS IN A RANDOM ORDER —Shuffle play



The unit plays each selection once in a random order.

**Press SHUFF while playing.**

Shuffle play begins on the disc being played. During shuffle play, the selection number blinks.

**The indication when the player is "shuffling" the selection**

When the player is "shuffling" the selection, the selection numbers change quickly.

**How to cancel shuffle play**

Press SHUFF again and the player returns to the normal play mode.

**To locate a next selection during shuffle play**

Press the ►► button.

However, you cannot return to the previous selection even if the ◄◄ button is pressed.

**When shuffle play ends on one disc**

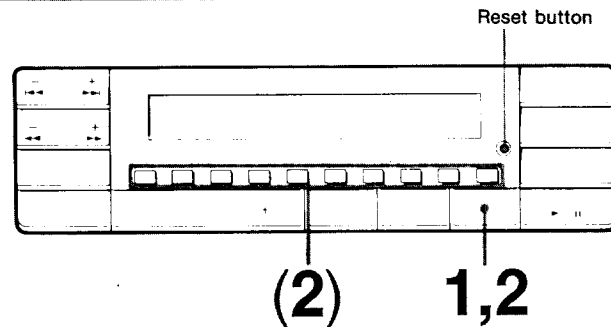
Shuffle play continues on the next disc.

# PLAYING THE SELECTIONS IN THE DESIRED ORDER —Memory program play

Up to 10 selections, one on each numeric button, can be programmed in the desired sequence.

The selection can be programmed either during playing or pause.  
Also, you can include selections from any disc to one program.

## How to program



### 1 Press MEM during play or pause.

The number of the blank numeric button blinks and the MEM indicator is displayed.

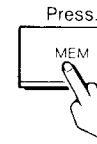
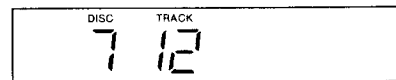
### 2 Press MEM again to preset the current selection on a blinking numeric button. To preset the selection on other numeric buttons, press the desired numeric button.

The MEM indicator disappears and the selection being played is preset on that numeric button.

**Example: To preset the 12th selection on the 7th disc on the numbered button 5**

While the disc number 7 and the selection number 12 are displayed.

Display window

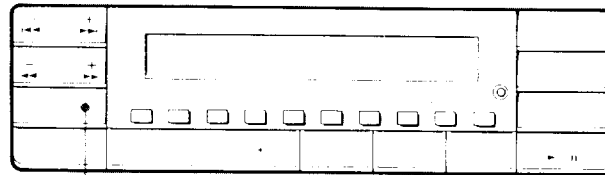


### Program is erased in the following cases

- The previous memory will be erased when a new selection is preset on the same numeric button.

- If the Reset button is pressed, program is erased.

## How to play the programmed selections



PGM

### Press PGM during play, pause, or stand-by mode.

The PGM indicator and the number "1" appears. Play starts from the first selection programmed. When you are listening to the radio, press ►|| or STANDBY and PGM.

### If no selection was programmed on a numeric button

During memory program play, the numeric buttons on which no selections were programmed are skipped.

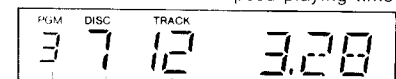
### To switch to the normal play

Press PGM again.

When the selection being played ends, play will start in normal sequence from the beginning of the next selection.

### Display during memory program play

The elapsed playing time



The selection number

The disc number

The number of the programmed numeric button

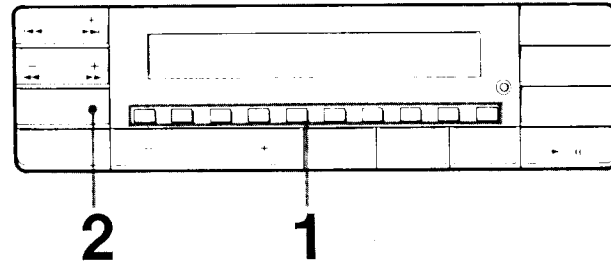
### If PGM was pressed when no selection is programmed

If PGM was pressed when no selection is programmed, |E-05| is displayed.



## PLAYING THE SELECTIONS IN THE DESIRED ORDER

Start playing from the desired selection on the program



### 1 Press the desired numeric button.

During the radio reception, press the numeric button after pressing ►► or STANDBY.

### 2 Press PGM within 5 seconds after pressing the numeric button.

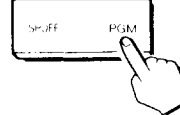
The PGM indicator and the number of the numeric button pressed appears. Play will start from the beginning of the selection preset on the numeric button pressed.

**Example: To listen to the selection preset on the numeric button [5]**

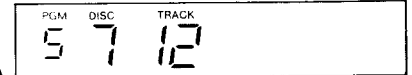
Press.



Press.



Display window



When that selection is the 12th selection on the 7th disc, the display window will be as illustrated below.

### To locate a selection during memory program play

To locate a next selection	Press ►►.
To locate a selection being played	Press ◀◀. The previous selection cannot be located by pressing this button.
To locate other preset selections	Press the numeric button on which the desired selection is preset. Press PGM within 5 seconds.

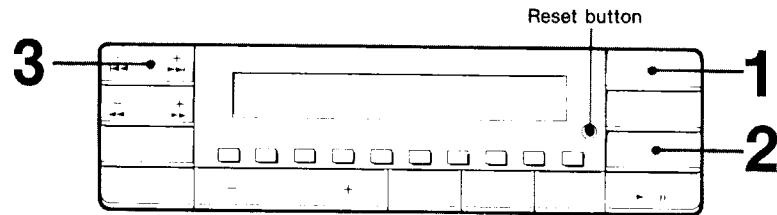
### When the ◀◀ side or ►► side of the ◀◀►► button is pressed

Play will go back or ahead in the normal sequence, and resume from the reached point. When playing of that selection ends, memory program play will begin again from the beginning of the next preset selection.

# TUNING IN THE STATION AUTOMATICALLY

## —Automatic tuning

When the optional XT-20 FM/AM tuner unit is connected, you can listen to the radio.



**1 Press POWER to turn on the power.**

**2 Press FM/AM to turn on the tuner.**

The band indicator (FM or AM) is displayed. If you want to listen to the other band, press FM/AM again.

**3 Press SEEK.**

Press + and the frequency will be increased automatically. Scanning stops automatically when the station is tuned in. Press the SEEK button repeatedly until the desired station is tuned in. Press – and the frequency will be decreased automatically.

### To turn the tuner off

To turn the tuner off	Press STANDBY. To turn the tuner on, press again.
To turn the power off	Press POWER. To turn the power on, press again.
To switch to CD play	Press ►  .

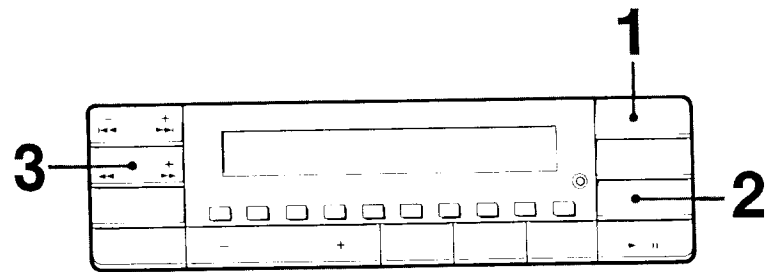
### To adjust the sound level and quality

Use the SELECT button and the LEVEL button.  
(See page 8)

Before operating the unit for the first time or after replacing the battery, press the reset button with a pointed object.

## TUNING IN THE STATION MANUALLY

### —Manual tuning



**1 Press POWER to turn on the power.**

**2 Press FM/AM to turn on the tuner.**

The band indicator (FM or AM) is displayed. If you want to listen to the other band, press FM/AM again.

**3 Press MANUAL to tune in the desired station.**

Press + to tune in a higher frequency.

Press - to tune in a lower frequency.

#### Frequency interval in the manual tuning

When you press the + side or - side of the MANUAL button once, the frequency will be increased or decreased by following intervals:

FM: 100 MHz

AM: 10 kHz

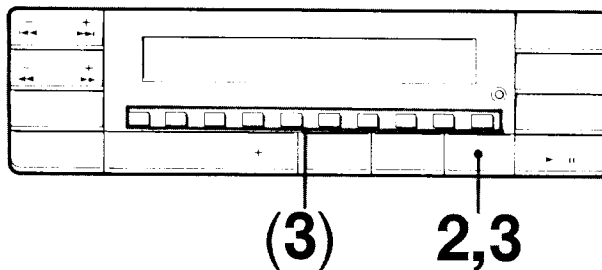
To change the frequency continuously, keep the button pressed.

#### Warning

While driving, keep your eyes on the road and use the automatic tuning or the memory preset tuning.

# MEMORY PRESET TUNING

## Presetting a station

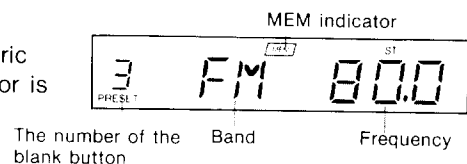


You can preset an AM and an FM station on each numeric button.

**1** Tune in the desired station by the automatic (17 page) or manual tuning (18 page).

**2** Press MEM.

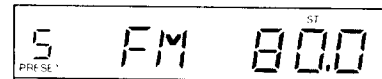
The number of the blank numeric button blinks and MEM indicator is displayed for 5 seconds.



**3** Press MEM again to preset a station on a blinking numeric button. To preset a desired station on other buttons, press the desired numeric button.

The MEM indicator disappears and the station is preset on that numeric button.

EX. The station is preset on [5].



### If MEM indicator disappears while presetting

The MEM indicator is displayed for 5 seconds after the MEM button is pressed. If the MEM indicator disappears, press MEM again.

### If there is no blank numeric button

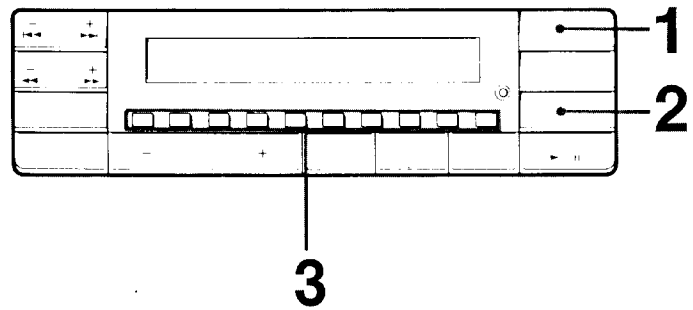
"—" appears.

### The memory will be erased in the following cases.

- When a new frequency is preset, any frequency of the same band previously set on that button is erased.
- When Reset button is pressed, the entire memory is erased.

## MEMORY PRESET TUNING

### Receiving a preset station



- 1 Press POWER to turn the unit on.**
- 2 Press FM/AM to turn the tuner on.**  
The band indicator (FM or AM) is displayed. If you want to listen to the other band, press FM/AM again.
- 3 Press the numeric button on which the desired station is preset.**

#### To receive a strong signal station or when noise makes it hard to hear an FM program

Press this button to select the mode you require—LCL (local) or MONO (monaural). Select the LCL mode to receive AM station at night or to receive a strong FM/AM signal station.

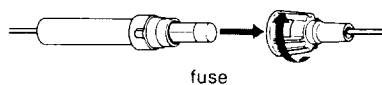
Select the MONO mode if noise makes it hard to hear an FM program.

When an FM stereo program is received, the ST indicator appears. However, if you select the MONO mode, the ST indicator will go out.

SENS button	Mode	
	While receiving FM stations	While receiving AM stations
Press once.	<b>LCL mode</b> The LCL indicator appears.	<b>LCL mode</b> The LCL indicator appears.
Press twice.	<b>MONO mode</b> The MONO indicator appears.	(LCL mode is released)
Press three times.	(MONO mode is released)	——

## FUSE REPLACEMENT

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.



### Warning

Use the specified ampere fuse for each lead.

Use of a higher amperage fuse may cause serious damage.

## SPECIFICATIONS

Tone controls Bass  $\pm 10$  dB (100 Hz)

Treble  $\pm 10$  dB (10 kHz)

Outputs Line output

Mounting dimensions

Commander:

Approx.  $172 \times 48 \times 23$  mm

(w/h/d)

( $6\frac{7}{8} \times 1\frac{15}{16} \times \frac{29}{32}$

in.)

Hide-away unit:

Approx.  $178 \times 25 \times 135$  mm

(w/h/d)

( $7\frac{1}{8} \times 1 \times 5\frac{3}{8}$  in.)

incl. projecting parts and controls

Weight Commander:

Approx. 0.3 kg (11 oz)

Hide-away unit:

Approx. 0.7 kg (25 oz)

Supplied accessories

Mounting hardware (1 set)

Fuse (1 A) (3)

Extension cord (1)

Design and specifications subject to change without notice.

## OPTIONAL ACCESSORIES

Mounting kit

Cleaning cloth XP-CD1

System selector XA-45

FM/AM tuner unit XT-20

Compact disc player CDX-A20

# TROUBLESHOOTING GUIDE

## Error displays

The following indicator flickers for about 2 seconds.

E-01	The disc magazine is not inserted in the changer.
E-02	No disc is inserted in the disc magazine.
E-03	The selection which is not on the disc is selected.
E-04	The disc is dirty, or the disc is inserted upside down.
E-05	The PGM button is pressed when no selection is preset for program play.
E-99	The unit cannot be operated because of trouble. →Press the Reset button of the remote commander. The indicator keeps flickering until trouble is reformed. If this indicator does not disappear after pressing the Reset button, consult your nearest Sony dealer.

## Other displays

WAIT	The temperature exceeds 55°C (131°F) and the player cannot be operated. When the unit cools off, this indicator disappears. When the Reset button is pressed, this indicator appears for a few seconds.
LOAD	The disc is being changed during play.

The following checks will assist in the correction of most problems which you may encounter with your unit. Should any problem persist after you have made these checks, consult your nearest Sony service facility.

When bringing in your unit for repair work, make sure you bring in the whole system (changer, remote commander, and the tuner if connected.)

Before going through the check list below, first refer back to the connection and operating procedures.

#### CD player section

TROUBLE	CAUSE (AND REMEDY)
Play does not begin.	The unit is in the pause mode → Press ►  .
The operation buttons do not work.	<ul style="list-style-type: none"><li>• The built-in microprocessor malfunctions. → Press the Reset button.</li><li>• The commander is not firmly connected.</li></ul>
The sound is skipped due to vibration.	<ul style="list-style-type: none"><li>• The changer is installed at an angle of more than 15° from the horizontal.</li><li>• The unit is not installed on the sturdy part of car.</li><li>• Dusty or defective disc.</li></ul>
The programmed selection is not played during memory program play.	<ul style="list-style-type: none"><li>• The disc is not in a particular slot. → Insert the disc in the slot and program the selection again.</li></ul>

#### Tuner section (when the XT-20 FM/AM tuner unit is connected.)

Preset tuning is not possible.	<ul style="list-style-type: none"><li>• The correct frequency is not memorized.</li><li>• The signal is weak. → Tune in manually.</li></ul>
Automatic tuning is not possible.	<ul style="list-style-type: none"><li>• The signal is weak. → Tune in manually.</li></ul>
The ST indicator flickers.	<ul style="list-style-type: none"><li>• The station is not tuned in precisely.</li><li>• The signal is weak. → Press the SENS button twice.</li></ul>